

A NEW SPECIES OF *FILCHNERELLA* KARNY FROM CHINA (ORTHOPTERA, ACRIDOIDEA, PAMPHAGIDAE)

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Abstract A new species of the genus *Filchnerella* Karny, i. e. *F. dingxiensis* sp. nov., is described from Gansu, China. A key to 18 species of the genus *Filchnerella* from China is given. The type specimens are deposited in the Museum of Hebei University.

Key words Orthoptera, Pamphagidae, *Filchnerella*, new species, China.

Introduction

The genus *Filchnerella* Karny was erected in 1908, belonging to subfamily Prionotropisinae, family Pamphagidae, superfamily Acridoidea (Zhang *et al.*, 2003). It is similar to *Pseudotmethis* B. -Bienko, 1949, but differs from the latter: fastigium near right angle, lateral facial carinae not elevated into lamellate, invisible in dorsal view, tegmina of male shorter than pronotum, if longer than pronotum, distinctly narrowed apically, widened in the middle. *Filchnerella* has 17 known species distributed mainly in Northwest China, such as Gansu, Qinghai, Ningxia and the west of Neimenggu (Karny, 1908; Rammé, 1931; Bei-Bienko, 1948; Liu, 1982; Zheng & Gow, 1981; Xi *et al.*, 1984; Yin, 1984; Xi & Zheng, 1985; Zheng & Xi, 1985; Zheng & Fu, 1989; Zheng, 1992; Huo, 1994; Li *et al.*, 2009). Bei-Bienko & Mishchenko (1951) recorded 3 species; Zheng (1985) recorded 9 species, Zheng & Xi (1985) recorded 10 species, Otte (1994) recorded 11 species, Yin *et al.* (1996) recorded 12 species, Eades, D. C. & Otte, D. (2010) recorded 17 species, all of them recorded *F. tiensuensis* Chang (Chang *et al.*, 1978); Zheng (1993) recorded 15 species, Xia *et al.*, described 10 species, both of them concluded that the species *F. tiensuensis* Chang is a synonym of *Eotmethis tiensuensis* (Chang) (Zheng, 1993; Xia *et al.*, 1994).

While identifying the grasshopper specimens collected from Gansu, China in July 2006, a new species of genus *Filchnerella* Karny, 1908, i. e. *F. dingxiensis* sp. nov. is found and is described below. A key to 18 species of the genus *Filchnerella* is given. The type specimens are deposited in Museum of Hebei University.

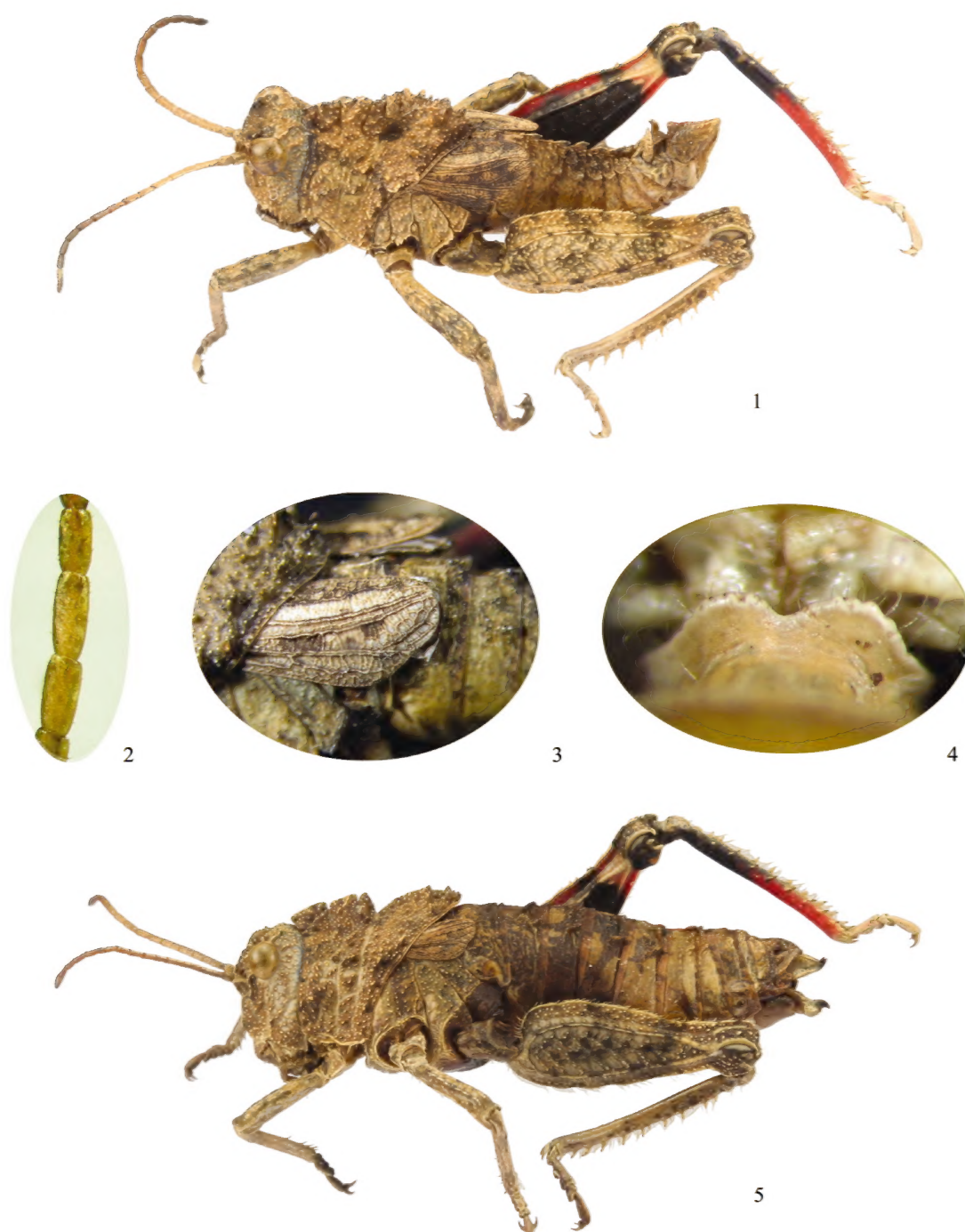
Filchnerella dingxiensis sp. nov. (Figs 1 – 5)

Holotype ♂, Gansu, Dingxi (35° 57' N, 104° 57' E; alt. 1 700 – 2 580 m), 20 July 2006, ZHANG Dao-Chuan and ZHI Yong-Chao. Paratypes: 4 ♂♂, 4 ♀♀, same date as that of holotype.

Description. Male (Figs 1 – 4). Body medium-sized, with thickset hairs, especially on legs. Vertex short and wide, width between two eyes is about 4 times as wide as frontal ridge between bases of antennae; lateral aspects of vertex edged by distinct carina that extend to eyes; fastigial furrow present, dorsal side of head depressed, with granular and club-like projection; preocellar foveolae irregular. Frontal ridge distinct, with a groove along its whole length, between the bases of antennae slightly projecting forward, constructed distinctly under median ocellus, widened gently downwards, widen distinctly on base of labrum. Lateral facial carinae distinct, but invisible in dorsal view. Eyes larger, near circle. Antennae long, 18 segments, length nearly equal to total length of head and pronotum, length of a segment 2.5 times its width in the middle part (Fig. 2). Pronotum rough, with short subuliform projection, anterior and posterior margin angled protruding; median carina elevated into lamellate, strongly incised on the posterior transverse groove; metazona almost equal in length to prozona, median carina incised by the 2 transverse grooves in prozona, median carina of metazona arc-like raised. Prosternum with a strong lamellate process on anterior margin, having obvious and shallow emarginate in the middle (Fig. 4). Interspace of mesosternum lateral lobes trapezoid, wider, the narrowest part wider than the broadest part

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Figs 1 – 5. *Filchnerella dingxiensis* sp. nov. 1. Body lateral view (♂). 2. Segments of antennae (♂). 3. Tegmina (♂). 4. Prosternum (♂). 5. Body lateral view (♀).

of lateral lobes. Tegmina separated distinctly on the dorsum, tegmina and hindwings short, extending over the posterior margin of first abdominal tergite distinctly (Fig. 3). Hind femur wide and compressed, length is about 3 times the width of broadest part; upper median carina of hind femur serrated, with arc-like concave near apex of knee. Hind tibia with apical spine on inner and outer side, with 10 spines on external side and 8 spines on internal side (including apical spine). Arolium between claws of tarsus larger,

its apex reaching to the middle of claws. Tympanum organ developed, tympanal aperture expanded, tympanic flap smaller. Krause's organ near oblong, with thinly rugose on surface. Abdomen dorsally with 3 rows of tubercles, middle row plate-like, distinct especially. Epiproct near tongue-like, with longitudinal groove in the middle. Cercus long conical, curved inward. Subgenital plate short conical, apex acute.

Female (Fig. 5). Body thick and larger than male. Vertex extremely wider, the width between two

eyes is about 4.5 times as wide as frontal ridge between bases of antennae. Length of antennae almost equal to the length of head and pronotum together. Tegmina lobi-form, separated widely dorsum, apex extending over anterior margin of first abdominal tergite, distinctly shorter than metazoan of pronotum. Cercus short conical. Subgenital plate project at an angle in the middle of posterior margin. Ovipositor valve short, hooked, apex acute angle, outer margin of lower valve with concave near the apex.

Coloration. Body filemot. Inner side of hind femur dark blue, red in pregenicular and upper margin, inner knee lobe black. Inner side of hind tibia

red on the apical half and dark blue on the basal half.

Measurements. Length of body: ♂ 17.5 – 18.3 mm; ♀ 25.2 – 28.1 mm. Length of pronotum: ♂ 6.8 – 7.4 mm; ♀ 8.1 – 10.0 mm. Length of tegmina: ♂ 4.0 – 4.7 mm; ♀ 2.9 – 3.5 mm. Length of hind femur: ♂ 8.9 – 9.8 mm; ♀ 12.0 – 13.0 mm.

Diagnosis. The new species is similar to *Filchnerella pamphagides* Karny, 1908 and *Filchnerella micropenna* Zheng et Xi, 1985. The major differences are listed in Table 1.

Etymology. The species name is derived from the type locality Dingxi.

Table 1. Comparison of *F. pamphagoides* Karny, 1908, *F. dingxiensis* sp. nov. and *F. micropenna* Zheng et Xi, 1985.

| Characters | <i>Filchnerella pamphagoides</i> Karny, 1908 | <i>Filchnerella dingxiensis</i> sp. nov. | <i>Filchnerella micropenna</i> Zheng et Xi, 1985 |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Tegmina | Contiguous on the dorsum in male or lateral in female, extending over the posterior margin of first abdominal tergite distinctly | Separated distinctly on the dorsum in both sexes, extending over the posterior margin of first abdominal tergite distinctly | Separated on the dorsum in both sexes, not reaching the anterior margin of first abdominal tergite |
| Prosternum | Anterior margin with deep emarginate in the middle | Anterior margin with obvious and shallow emarginate in the middle | Anterior margin with slight emarginate in the middle |
| A segment of antennae in the middle part | Length 2.0 times of width | Length 2.5 times of width | Length 1.6 – 1.8 times of width |
| Hind tibia | Inner side basal half blue-black and apical half red | Inner side basal half blue-black and apical half red | Inner side base and end red, middle part blue-black |

Key to the species of *Filchnerella* Karny, 1908 from China.

- 1 (6) Tegmina strongly abbreviated, their length distinctly shorter than the length of pronotum in male or metazoan in female
- 2 (3) The base and end of hind tibia red, middle part blue-black on inner side 1. *F. micropenna* Zheng et Xi, 1985
- 3 (2) Hind tibia basal half blue black, and the apical half red on inner side
- 4 (5) Tegmina overlapping on the dorsum in male or lateral in female. Prosternum with a lamellate process on anterior margin, having deep emarginate in the middle. Length of a segment 2.0 times of width in the middle part of antennae 2. *F. pamphagoides* Karny, 1908
- 5 (4) Tegmina in both sexes very widely separated on the dorsum. Prosternum with a lamellate process on anterior margin, having obvious and shallow emarginate in the middle. Length of a segment 2.5 times of width in the middle part of antennae ... 3. *F. dingxiensis* sp. nov.
- 6 (1) Tegmina developed or very developed, their length distinctly greater than the length of pronotum in male or metazoan in female
- 7 (32) Tegmina developed, their apex distinctly not reaching the end of hind femora in male, and not reaching, reaching or slightly extending beyond the posterior margin of the second abdominal tergite, their length distinctly shorter than the length of pronotum in female
- 8 (21) Hind tibia red or black on inner side
- 9 (20) Hind tibia all red on inner side
- 10 (15) Inner side of hind femur yellowish-brown in pregenicular
- 11 (12) Inner side of hind tibia bright-red, below margin of inner side of hind femur red 4. *F. zhengi* Huo, 1994
- 12 (11) Inner side of hind tibia dark-red, below margin of inner side of hind femur not red
- 13 (14) Inner side of hind tibia without black in the basal half, body larger 5. *F. lanchowensis* Zheng, 1981
- 14 (13) Inner side of hind tibia mixed black in the basal half, body smaller 6. *F. brachyptera* Zheng, 1992
- 15 (10) Inner side of hind femur not yellowish-brown in pregenicular
- 16 (19) Inner side of hind femur red in pregenicular
- 17 (18) Hind tibia bright-red on inner side, tegmina shorter in male, their apex only reaching the posterior margin of the sixth abdominal tergite; base of hind wings yellow, with wide black band 7. *F. yongdengensis* Xi et Zheng, 1984
- 18 (17) Hind tibia red on inner side, sometimes slightly painting black on the middle. Tegmina longer in male, their apex reaching to or extending beyond the base of epiproct; base of wings transparent, with thin black band 8. *F. gansuensis* Xi et Zheng, 1985
- 19 (16) Inner side of hind femur black, without red ring in pregenicular. Dark band of wings in male undeveloped, which lacking behind the third anal field 9. *F. rufitibia* Yin, 1984
- 20 (9) Hind tibia black on inner side ... 10. *F. nigritibia* Zheng, 1992
- 21 (8) Inner side of hind tibia red on the base and end, blue on the middle
- 22 (29) Tegmina longer in male, their apex distinctly reaching, not reaching the base of epiproct
- 23 (26) Inner side of hind femora blue-black, red in the distal fourth
- 24 (25) Lower area of hind femur on inner side all red. Body smaller. The width of vertex in female between the eyes was about 3 times as wide as width of frontal ridge between the bases of the antennae 11. *F. beichi* Ramme, 1931
- 25 (24) Lower area of hind femur on inner side red in apical half only. Body larger. The width of vertex in female between the eyes was about 6 times as wide as width of frontal ridge between the bases of the antennae 12. *F. amplivertica* Li, Zhang et Yin, 2009
- 26 (23) Inner side of hind femora blue or black, yellow or bright-yellow in pregenicular
- 27 (28) Inner side of hind femora blue-black, yellow in pregenicular, without red on lower margin 13. *F. kukunoris* Bei-Bienko, 1948
- 28 (27) Inner side of hind femora black, bright-yellow in pregenicular,

- with slightly red on lower margin
 14. *F. tenggerensis* Zheng et Fu, 1989
 29 (22) Tegmina shorter, their apex reaching the third or fourth abdominal tergite
 30 (31) Inner side of hind femora bright-yellow in pregenicular, with all red on lower margin 15. *F. rubimargina* Zheng, 1992
 31 (30) Inner side of hind femora yellow in pregenicular, with red only on lower margin of yellow part in pregenicular
 16. *F. helanshanensis* Zheng, 1992
 32 (7) Tegmina very developed, extending beyond the end of hind femora in male and reaching to or extending beyond the posterior margin of their third abdominal tergite in female and their length equal to the length of pronotum
 33 (34) Tegmina strongly extending beyond the end of hind femora in male, tegmina overlapping dorsum in female
 17. *F. sunanensis* Liu, 1982
 34 (33) Tegmina slightly extending beyond the end of hind femora in male, tegmina separated dorsum in female, not overlapping
 18. *F. qilianshanensis* Xi et Zheng, 1984

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中国短鼻蝗属一新种 (直翅目, 蝗总科, 癩蝗科)

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摘要 记述短鼻蝗属 1 新种, 定西短鼻蝗 *Filchnerella dingxiensis* sp. nov., 编制了该属 18 种的检索表。模式标本保存于河北大学博物馆。

定西短鼻蝗, 新种 *Filchnerella dingxiensis* sp. nov. (图 1~5)

新种与癩短鼻蝗 *Filchnerella pamphagides* Karny, 1908 近似, 区别特征为: 1) 雄性前翅在背部分开; 2) 前胸腹板前缘片状隆起中部具浅凹陷; 3) 触角中段 1 节之长为宽的 2.5 倍。

关键词 直翅目, 癩蝗科, 短鼻蝗属, 新种, 中国。

中图分类号 Q969.265.1

新种与小翅短鼻蝗 *Filchnerella micropenna* Zheng et Xi, 1985 也近似, 其不同之处为: 1) 前翅较长, 明显超出腹部第 1 节背板的后缘; 2) 后足胫节内侧基半部蓝黑色, 端半部红色。

正模 ♂, 副模: 4 ♂♂, 4 ♀♀, 甘肃定西, 2006-07-24, 张道川, 智永超采。

词源: 新种种名源自模式标本产地定西。

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